

NIKITA JAYAKAR

Brooklyn, New York, NY | (929) 888-6884 | nmj303@nyu.edu | www.linkedin.com/in/nikita-jayakar | www.github.com/nikki2606

EDUCATION

New York University(Tandon School of Engineering)
MS in Computer Science

Brooklyn, NY
May 2021

University of Mumbai(Fr. C. Rodrigues Institute of Technology)
BE in Computer Engineering (CGPA 8.83/10)

Mumbai, India
June 2019

- **Activities:** College Newsletter Editing Team (2017), Reporting Head of College Magazine (2017-18).
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PROFESSIONAL EXPERIENCE

New York Life Insurance

Jersey City, NJ

Summer Technology Intern in Digital Track(AI)

June 2020 - August 2020

- Improved the Agency Portal using UI/UX prototype and implemented SVM ML algorithm for classification on the company data
- Worked on company dataset for data analysis using MS SQL Server, data extraction using NLP and Regex, improved model accuracy by tweaking the data, and built ML(Machine Learning) models like LinearSVC for text classification
- Implemented 19 different versions of Keras Deep Learning models for text classification algorithms using Python

New York University

Brooklyn, NY

Math Tutor and Proctor (Part-time)

September 2019 - December 2019

- Assisted undergraduate students with their questions regarding their Math assignments in Fall 2019
- Clarified concepts for students in courses like PreCalculus, Calculus-I, Calculus-II, Linear Algebra, and Discrete Math

Tata Consultancy Services

Mumbai, India

Project Trainee (Virtual Internship)

June 2018 - June 2019

- Created a dataset of image files using tools like MS Paint, and Adobe Photoshop
- Built a deep learning model to produce real-time compression of image files
- Reduced the size of image jpeg files to 1/4th the original size

Network Marvels (India) Pvt. Ltd.

Thane, India

Undergraduate Intern

June 2018 - July 2018

- Implemented automation testing techniques using ROBOT framework based in Python for frontend testing of the company website
 - Used automation testing for backend and database testing for the same company website(startup)
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ACADEMIC PROJECTS

Virtualboard, Collaboration Project

06/2020 - 08/2020

- Utilized OpenCV to capture the brightest pixel formed by mobile phone flashlight on the webcam
- Gave options like keyboard keys to start or stop drawing on the webcam screen and drawing tools were created using OpenGL

Hand Gesture Recognition, Collaboration Project

05/2020 - 06/2020

- Created own dataset for different hand gestures using Image Processing
- Built a CNN(Convolutional Neural Networks) model to identify hand gestures based on the dataset created

Auto-Categorization of Articles, NYU Tandon

04/2020 - 05/2020

- Cleaned the articles dataset and used the LDA algorithm for auto-categorization of articles based on keywords using PySpark
- Performed sentiment analysis on each article using NLP(Natural Language Processing) and results were dumped in Elasticsearch
- Created Web app using React.js for the display of results and Flask at the backend

Resume Screening using AI, University of Mumbai

07/2018 - 04/2019

- Cleaned the resume dataset which we got from OpenSource
 - Performed data extraction using NLP and Regex and calculated the score of resumes based on job descriptions
 - Created Web app using HTML, CSS, JavaScript, JQuery and Flask and SQLite for database
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PUBLICATIONS/ AWARDS

- N. Jayakar and 5 others, "Web Application for Screening Resume," 2019 International Conference on Nascent Technologies in Engineering (ICNTE), Navi Mumbai, India, 2019, pp. 1-7, doi: 10.1109/ICNTE44896.2019.8945869.
- **Winner, Smart India Hackathon(SIH) 2019 - software edition (team event)**

March 2019

SKILLS

- Python, C++, C, HTML/CSS, JavaScript, JQuery, Bootstrap, React, Flask, R, Apache Kafka, Spark, Java, PHP, Microsoft Office Tools, SQL, MySQL, OpenCV, Tableau, SQLite, MS SQL Server, MongoDB, ElasticSearch